

"APPROVED	FOR RELEASE:	06/15/	/2000
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ATTORNEL A. C.		
	USSR/Mines and Mining Aug 1947 Mineral Industries	
	"Deep Slits for Cutting for Ores at the Works <u>imeni</u> Dzerzhinskiy," A. D. Polishchuk, I. P. Zabolotnyy, and V. M. Ryng, 7 pp	
	"Gornyy Zhurnal" No 8	
	Discusses new equipment for horizontal drilling of deep slits. Describes various types of deep slits cut at the workings <u>imeni</u> Dzerzhinskiy. Tables and diagrams.	
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POLISHCHUK, A. D.

USSR/Mining Methods Explosives Feb 49

"The Development of Exploitation Systems Using Torpedo Holes for Ore Breaking in the Krivoy Rog Basin," G. M. Malakhov, A. D. Polishchuk, F. I. Volkov, 6 pp

"Gor Zhur" No 2

Deep torpedo holes for ore breaking may be used on ores with strength less than 3, where width of the vein is not less than 10 meters. The system is being used successfully in Krivoy Rog Basin.

FA 40/49T82

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DOL:SHOHUK, A. D.

G. H. Malakhov, and A. D. Polishchuk, <u>Peredovyve metody ochistnoy vyvemki v Krivbasse</u> /Advanced Methods of Ore Extraction on the Krivbass/, "ctallurgizdat, 7 s ests The booklet describes experience of innovators of the Krivorozh iron ore field -stakhanovite workers, engineers and technicians -- in the rationalization of existing

starnanovice workers, en meets and stonmating of the estraction systems, with the aim of systems, and development of new variants of the estraction systems, with the aim of increasing their efficiency, and describes advanced methods of conducting and improving mine production.

The booklet is entended for engineers and technicians of the mining industry.

SO: U-61;72, 12 Nov 1954

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POLISHCHUK, A. D.

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A. D. Polishchuk, and A. G. Shostak, <u>Sistema blokovoro obrucheniya na rudnikaka Krivbassa</u> <u>/The block-Precipitation System in wines of the Krivbass</u>, <u>Metallarviz at</u>, 12 sheets. The bo klet describes the utilization of block-precipitation in the Krivby Rog mines describes the results of scientific investigations in est blisning the optimum parameters for the system, the order, the methods of undercutting blocks, and precipitation in mines. The booklet is intended for engineers and technicians -- preduction worke s, disigners and for students of mining institutes and technical schools.

SO: U-6472, 12 Nov 15

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POLISHCHUK, A.D., professor

Effect of manganese and boron on the growth of grape seedlings. Vin.SSSR 15 no.3:35-36 '55. (MIRA 8:8)

1. Kiyevskiy sel'skokhosyaystvennyy institut. (Grapes) (Plants, Effect of boron on) (Plants, Effect of manganese on)

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LISHUHU	K, H, C	
USSR/Chemical	Technology. Chemical Products and Their Application Fermentation industry, I-27	
Abst Journal:	Referat Zhur - Khimiya, No 2, 1957, 6470	
Author:	Chernyavskiy, A. I., Cherevko, N. G., Polishchuk, A. G.	
Institution:	L'vov Polytechnic Institute	
Title:	Steeping of Grain by Irrigation	
Original Publication:	Nauch. zap. L'vovsk. politekhn. in-ta, 1956, No 22, 135-139	
Abstract:	Laboratory investigations have shown that on steeping of grain by the irrigation method, with intervals of up to 2 hours, steeping of the grain and its sprouting are accelerated considerably in compari- son with the generally utilized method of air-water steeping (4 hours under water and 2 hours without water), while retaining the same qualitative indices of the resulting malt. A project has been worked out of an industrial unit for continuous steeping of grain by the ir- rigation method, which consists of a washing apparatus (of the potato washing type) and a steeping chamber which comprises a vertical shaft	
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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341810011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341810011-1 NARAS ARE ARE AN ADDRESS AND CONSISTENCE AND DESCRIPTION OF THE PARTY OF USSR/Chemical Technology. Chemical Products and Their Application -- Fermentation 1 industry, I-27 Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6470 Abstract: inside of which are set, in horizontal position, several rows of screens disposed in a roof-like manner, checkerboard fashion in the vertical direction. There is given a diagram of the unit as well as its principal dimensions and a description of its operation. It is assumed that the proposed unit will make it possible to reduce the duration of malt production, decrease expenditure of water for steeping, eliminate the need of compressed air and decrease the over-all dimensions of the steeping department building. Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341810011-1 STREET, STREET, POLISHCHUK, A.G.; OSHCHAPOVSKIY, V.V. Determining the acidity of diluted melasses. Spirt.prem.22 me.1:18 156. (MLRA 9:7) 1.L'vevskiy pelitekhnicheskiy institut. (Melasses) CONTRACTOR OF 1000





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Polishe	huk, A.P.
	, Vil'yam Vil'yamovich; POLISHCHUK, Anatoliy Pavlovich; GILEV, N.Kh., red.; PITERMAN, Ye.L., red. idz-va; SHITS, V.P., tekhn. red.
	[Universal chain saws] Universal'nye pil'nye tsepi. Moskva, Gos- lesbumizdat, 1957. 42 p. (MIRA 11:7) (Chain saws)

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Cari POLISHCHUK, A. P.: Mastor Tech Sci (diss) -- "Investigation of the dulling of cutting parts of chain saws and methods of increasing their wear resistance". Muscow, 1958. 22 pp (Min Higher Educ USSR, Moscow Forestry Engineering Inst), 125 copies (KL, No 6, 1959, 135)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341810011-1"

YELISEYEV, Anisim Vasil'yevich: POLISHCHUK, A.P., red.; SVETLAYEVA, A.S., red.imd-va; PROKOF'YEVA, L.N., tekhn.red.

[Sharpening saws at saw maintenance points; manual for working circles and groups] Zatochka Lesorubochnogo instrumenta na pilopravnykh punktakh; posobie dlia leskhozov i lesnichestv. Noskva, Goslesbumizdat, 1958. 25 p. (MIRA 12:2) (Saw filing)

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KUOSMAN, Vil'yam Vil'yamovich, POLISHCHUE, Arsteliy Pavlovich, NADBAKS, M.P., red.; NIKOLAYDVA, I.J., red.; SHITS, V.P., tekhnired. [TaNIIME-K6 electric chain saw] Elektromotonaia pila TaNIIME-K6. (MIRA 11:8) Moskva, Goslesbumizdat, 1958. 53 p. (Chain saws)

SOV/129-59-4-13/17 Engineers Vasil'yev, M.M., and Polishchuk, A.P. AUTHORS: Increasing the Hardness of Timber-Cutting Tools by High TITLE: Frequency Hardening (Uprochneniye rezhushchego lesozagotovitel'nogo instrumenta zakalkoy T.V.Ch.) PERIODICAL: Metallovedeniye i Termicheskaya Obrabotka Metallov, 1959, Nr 4, pp 55-57 (USSR) ABSTRACT: Saw chains are series manufactured in three variants depending on the applications. Production of wear resistant and strong saw chains was solved by TsNIIME by producing cutting bits of a high hardness of 60-62Rc; through-hardening with high frequency current was applied. In the case of the saw chain PTs-15M the cutting elements were subjected to hardening. The high frequency hardening of the cutting elements penetrated to depths up to 3 mm; the sketch (Fig 1) gives a full picture of the depths of the hardened and the transient (thermally affected) zones, both of which are located above the bonding point of the cutting elements thus ensuring the necessary high strength in the dangerous cross section itself. The current is fed from a 72 kW,130-200x103 kc/sec oscillator. The heating was effected by means of a loop inductor made of copper Card 1/3 tubing and cooled internally with water. The heating

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SOV/129-59-4-13/17 Increasing the Hardness of Timber-Cutting Tools by High Frequency Hardening

temperature is monitored by means of a photo-electric pyrometer. Individual elements were heated singly for durations slightly over one second and, following that, they were dropped into an oil containing tank. After hardening the individual elements were tempered in an oil bath for 2 hours at 170°C. The high frequency heating was effected in accordance with two regimes with heating temperatures of 900 - 960°C and heating speeds of 130 - 150°C/sec. respectively. The temperature curve for heating according to the first-mentioned regime is graphed in Fig 2. On the basis of the obtained result it is concluded that high frequency hardening ensures in the given case a 2-3 fold increase in the wear resistance. For one of the types of saw chains discussed (PTs-15M) the author recommends high frequency hardening only for the cutting elements themselves, which should be carried out by means of specially built automatic hardening machines. The high frequency hardening increases the manufacturing cost of the product by 10 to 15% but this

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SOV/129-59-4-13/17 Increasing the Hardness of Timber-Cutting Tools by High Frequency is out-weighed by the fact that the life of the manufactured tools is doubled. There are 2 figures and 1 table. ASSOCIATIONS: VNII and TSNIIME Card 3/3

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MARKOV, B.F.; POLISHCHUK, A.F.

Conductance of salts in the region of crystal - melt phase transition. Halides of some bivalent metals. Ukr. khim. zhur. (MIRA 19:1) 31 no.10:1065-1071 '65.

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR. Submitted February 22, 1965.

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MARYOV, B.F.; POLISHCHUK, A.F.

Conductance of salts in the region of crystal - melt phase transition. Effect of impurities. Ukr. khim. zhur. 31 no. 11: (MIRA 19:1) 1133-1136 '65

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

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CIA-RDP86-00513R001341810011-1 "APPROVED FOR RELEASE: 06/15/2000

MARKOV, B.F.; POLISHCHUK, A.F. Change of conductance during the phase transition in the system salt crystal - fused alkali metal nitrates and nitrites. Ukr. (MIRA 18:4) khim.zhur. 31 nc.2:182-185 '65. 1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.



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magnets made	a hydrogen medium at 1280+10°C for three hours. After thermo- eatment in a magnetic field of 250 ka/m intensity, the magnets were e. The properties were equivalent to those of metalloceramic by ordinary methods. This process allows a considerable reduction of metalloceramic magnets. Orig. art. bees 2 5
JPRS: 40,4	by ordinary methods. This process allows a considerable reduction of metalloceramic magnets. Orig. art. has: 2 figures and 3 tables.
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ARSENTITEV, A.I., doktor tekhn.nauk; POLISHCHUK, A.K., kand.tekhn.nauk

Interaction between open and underground operations in the combined mining of deposits. lav.vys.ucheb.tav.; gor.zhur. 8 no.ll:346 165. (MJRA 19:1)

1. Krivoroshskiy gornorninyy institut. Rekomendovana kafedroy razrabotki mestorozhdeniya poleznykh iskopayemykh. Submitted July 21, 1964.

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*APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341810011-1
BETUKH, V.R., inzh.; POLISHCHUK, A.K., inzh.
Distribution of ore losses in stoped-out areas. Met. i gornorud. prom. no.5:46-48 S-0 '63. (MIRA 16:11)
1. Krivorozhskiy gornorudnyy institut.

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CIA-RDP86-00513R001341810011-1

ALEKSEYEV, F.K.; ANDRIYUTS, G.L.; ARSENT'YEV, A.I.; ASTAF'YEV, Yu.P.; BEVZ, N.D.; BEREZOVSKII, A.I.; GENERALOV, G.S.; DOROSHENKO, V.I.; YESHCHENKO, A.A.; ZAPARA, S.A.; KALINICHENKO, V.F.; KARNAUSHENKO, I.K.; KIKOVKA, Ye.I.; KOBOZEV, V.N.; KUPIN, V.Te.; LOTOUS, V.K.; LYAKHOV, N.I.; MALYUTA, D.I.; METS, Yu.S.; OVODENKO, B.K.; OKSANICH, I.F.; PANOV, V.A.; POYZNER, Z.B.; PODORVANOV, A.Z.; POLISHCHWK, A.K.; FOLYAKOV, V.G.; POTAPOV, A.I.; SAVITSKIY, I.I.; SERBIN, V.I.; SERGEYEV, N.N.; SOVETOV, G.A.; STATKEVICH, A.A.; TERESHCHENKO, A.A.; TITOV, D.S.; FEDIN, A.F.; KHOMYAKOV, N.P.; SHEYKO, V.G.; SHEKUN, O.G.; SESTAKOV, M.M.; SHTAN'KO, V.I.
Practice of construction and exploitation of open pits of Krivoy Rog Basin mining and ore dressing combines. Gor. zhur. no.6: 8-56 Je '63. (MIRA 16:7) (Krivoy Rog Basin--Strip mining)

APPROVED FOR RELEASE: 06/15/2000

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341810011-1 ARSENT'YEV, A.I., dotsent; POLISHCHUK, A.K., inzh.; ADIGAMOV, Ya.K., inzh. Effect of indices of losses and depletion during development mining deposits at the end boundaries of a strip mine. Izv.vys. ucheb. zav.; gor. zhur. 7 no.3:9-14 '64 (MIRA 17:8) 1. Krivprozhskiy gornorudnyy institut (for Arsent'yev, Polishchuk). 2. Vaesbyuznyy nauchno-issledovatel'skiy gornometallurgicheskiy institut tsvetnykh metallov (for Adigamov). Rekomendovano kafedroy razrabotki mestorozhdeniy poleznykh iskopayemykh Krivorozhskogo gornorudnogo instituta.

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ARSENT'YEV, A.I., dotsent; POLISHCHUK, A.K., inzh.

Determining the limits of a strip mine for the selective mining of several types of ore. lzv.vys.uchev.zav.;gor.zhur. (MIRA 17:7) 7 no. 4:38-42 '64.

1. Krivorozhskiy gornorudnyy institut. Rekomendovana kafedroy razrabotki mestorozhdeniy poleznykh iskopayemykh.

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ADIGAMOV, Ya.M., gornyy inzh.; FOLISHCHUK, A.k., gornyy inzh.

Determining the overburden stio limit and strip mine boundaries. Gor. zhur. no.8:17-22 Ag '64.

(MIRA 17 10) at the selection of the se

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PCLISHCHUK, A.M.

Effect of natural pyrimidines on the growth of Ehrlich's tumor in mice and lymphosarcoma in rats. Vop. onk. 11 no.3: 59-61 '65. (MIRA 18:6)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zasluzhennyy deyatel' nauki prof. N.V. Lazarev) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov).

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POLESHCHUK, A.M., inzh.; SOLOGUB, D.M. [Solohub, D.M.] Thinning machine for sugar beet fields. Mekh. sil'. hosp. 13 no.4:11-12 Ap '62. (MIRA 17:3)



POLISHCHUK, A.P., dotsent

Analysis of safety conditions in Krivoy Rog Basin mine stopes. Sbor. nauch. trud. KGRI no.7:187-194 '59. (MIRA 16:9) (Krivoy Rog Basin--Mine safety)

CIA-RDP86-00513R001341810011-1

ALYAB'YEV, V.I., kand. tekhn. nauk; VINOGOROV, G.K., kand. tekhn. nauk; <u>POLISHCHUK</u>, A.P., kand. tekhn. nauk; Prinimal uchastiye KRAL'KIN, A.S., inzh.; DOLBILIN, I.P., inzh., retsenzent; YERMOLIN, I.P., inzh., otv. red.; KOZLOV, A.D., red.izd-va; GRECHISHCHEVA, V.G., tekhn. red.

> [Lumbering camps; mechanization of logging operations. A handbook] Lesozagotovki; mekhanizatsiia lesosechnykh rabot. Spravochnik. Moskva, Goslesbumizdat, 1962. 450 p. (MIRA 16:6)

> > (Lumbering)

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CIA-RDP86-00513R001341810011-1

Palishehuk, D.J. D-3 USSR/Statistical Physics - Thermodynamics : Referat Zhur - Fizika No 5, 1957, 11415 Abs Jour Fedoseyev, V.A., Polishchuk, D.I. Author : Evaporation of Drops of Combustible Liquids. Inst Title : : Zh. tekhn. fiziki, 1956, 26, No 7, 1509-1518 Orig Pub : An investigation was made of the evaporation of drops of benzol, toluol, ethyl alcohol, and xylol (the dimensions Abstract ranged from 1.52 to 0.81 mm), with changing temperature, speed of air flow, and concentration of vapors of the corresponding liquid in the air. The investigation has shown that from the qualitative point of view the evaporation of drops of these liquids does not differ from the evaporation of drops of water. The kinetic law ds/dt=const holds under all the investigated evaporation conditions. The temperature of the drop increases somewhat as the evaporation proceeds and as the vapor content of a given liquid Card 1/2

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	sov/81-60-1-470
Translation 1	from: Referativnyy zhurnal. Khimiya, 1960, Nr 1, p 63 (USSR)
AUTHORS: TITLE:	Fedoseyev, V.O., Polishchuk, D.I., Selivanov, Ye.D. The Evaporation of a Liquid Drop During Its Burning
PERIODICAL	Tr. <u>Odessk. un-ta.</u> Ser. fiz. n., 1958, Vol 148, Nr 6, pp 43 - 48 (Ukrainian)
ABSTRACT:	It has been established by the method of motion picture photography that during burning of drops of individual organic fuel substances, as well as during burning of drops of mixed (multi-component) fuel substances, the surface of the drops decreases linearly with time. In the case of blowing air around a drop of burning multi-component liquid and artificial removal of the flame from its surface it was possible to obtain deviations from the linear dependence, under these conditions a gradual lowering of the rate of the drop surface decrease was observed. The ¹ phenomenon described is explained by the fractional evaporation of the components of the fuel mixture.
Card 1/1	E. Kaplan

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31299 S/124/61/000/010/034/056 D251/D301

II./J. Polishchuk, D.1. AUTHOR: Polishchuk, D.1. TITLE: Evaporation and combustion of drops of organic liquids	1061 85.
	3(), 17041,
PERIODICAL: abstract 10 B607 (Pratsi Odes'k. un- abstract 10 n., Tr. Odessk. un-ta, Ser. fiz. n., n., 7 33-37)	6
TEXT: The evaporation or combilition of fluids suspended on a thermocouple is investigated with scope with the aid of cine- or photo-apparatus. In of individual readily volatile liquids, the temperation is slightly increased (by 2-3°) beyond the calculat of heat by the suspension. The dependence of the st meter on time remains linear as in the case of wate dence of the speed of evaporation on the concentrat	ture of the supply ion of the supply quare of the dia-
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Evaporation and combustion ...

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of the liquid in the air is also close to linear. For slow evaporation of a multifractional liquid (benzene etc) the temperature of the drop increases with the passage of time, to beyond the calculation of the distillation of light fractions. For high speeds of evaporation (high air temperature) the liquid does not have time to become perturbed in the volume of the drop, it burns "by layers" without fractional distillation and as a result, the temperature remains constant and the dependence of the square of the diameter on the temperature remains constant. A similar dependence relationship is obtained for the evaporation of a drop of burning fuel if the flame encompasses the entire drop. If the flame is blown away from the drop, then the linearity between the square of the diameter and the time breaks down. Abstracter's note: Complete translation_7

Card 2/2

APPROVED FOR RELEASE: 06/15/2000

31298 S/124/61/000/010/033/056 D251/D301

11.73.50AUTHORS:Latonina, L.P., Fedoseyev, V.A. and Polishchuk, D.I.TITLE:Experimental investigation of the combustion of drops
of certain fuels in a current of hot airPERIODICAL:Referativnyy zhurnal. Mekhanika, no. 10, 1961, 85,
abstract 10 B606 (Pratsi Odes'k un-tu, Ser. fiz. n.,
Tr. Odessk. un-ta, Ser. fiz. n., 1960, 150, no. 7,
85-96)TEXT:The combustion of drops of benzene, kerosene, liquid
tion of dimensions 1 - 2.5 mm is investigated
by two methods: The kino-surveying of an enlarged drop, burning on
a thin platinum support, and by creating "stationary drops". For

a till pratting support, and by decoming is used, onto which the the latter, a small porous ceramic sphere is used, onto which the necessary amount of fuel is continuously applied by means of a syringe. In both cases particular attention is paid to the instant when the flame separates from the frontal point of the drop. The

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341810011-1 31298 S/124/61/000/010/033/056 D251/D301 results obtained by both methods coincide. At a definite velocity of the air, the flame separates from the drop. For a further inof the air, the flame separates from the drop increases with the increase which the flame separates from the drop increases with the increase in diameter of the drop and temperature, and depends on the type of fuel. / Abstracter's note: Complete translation_/

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S/124/62/000/005/026/048 D251/D308 Fedoseyev, V.A., Polishchuk, D.I., and Latonina, L.P. AUTHORS: The effect of the ignition conditions on the kinetic TITLE: combustion of a drop of fuel Referativnyy zhurnal. Mekhanika, no. 5, 1962, 101, PERICDICAL: abstract 5B653 (Nauchn. Yezhegodnik, Odessk. un-t, Fiz. matem. fak. i. N. -i. in-t Fiz. no. 2, Odessa, 1961, 191 - 195) It was shown experimentally that the velocity of combustion of a drop with a current of air blowing round it depends on the means of ignition and the position of the flame front with respect to the drop. The ignition was studied with the aid of a burner and of an electric spark both with the drop completely enveloped by the flame and with it half-enveloped. In both cases the velocity of combustion was greater with ignition from the burner. 4 references. [Abstractor's note: Complete translation]. Card 1/1

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CIA-RDP86-00513R001341810011-1

Second conference of higher ...

S/185/61/006/002/020/020 D210/D304

also on the dimensions of the drops). B.S. Brounshteyn and O.M. Todes: "The turbulent flows around solid spherical particles up to Re = 10⁵" (equations for pulsation velocities of particles and flow for heat and mass exchange). B.V. Deryagin, S.P. Bakanov, and Yu.S. Kurgin: "The results of investigations of the kinetics of evaporation of liquid drops covered by non-soluble films of extraneous substance". Formulae were obtained for the velocity of quasi-stationary evaporation of such drops, for non-stationary evaporation, for evaporation from a flat surface covered by a layer of a different substance. M.V. Byukov: "Two lectures on the theory of isothermal distillatim in a mixture of polydispersive aerosols." A.A. Shcherbakov: "The investigation of evaporation in the surrounding medium, and variable temperature". H.A. Martynov, and S.P. Bakanov: "The coagulation of aerosols" (an equation describing the variation of total number of particles). V.O. Fedoseyev: "Basic results of the investigation of coagulation growth of drops solutions of hygroscopic substances in a flow of aerosol" (carried out together

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with other members of staff of the laboratory of aero-dispersive system of Odessa University). B.V.Deryagin, P.S. Prokhorov, L.F. Leonov and M.V. Velychko, developed a new method for investigating condensing processes in a diffusion chamber, consisting of making use of periodical changes of heat regime of the moistened walls of the chamber containing the gas-vapor mixture. L.V. Radushkevich and V.A. Kolganov: "Properties of aerosols formed at high temperatures from metallic tungsten in gases". Ye.I. Siryy: "The application of radioactive radiations for monodispersation of condensational aerosols". H.M. Martynkevych: "The problem of determining evaporation heat of diatomic and more complex structures". H.Ya. Vlasenko: "The further improvement of the counter of aerosol particles and the use of the method of flow ultramicroscopy for investigating aerosols with liquid dispersive phase". V.O. Fedoseyev told of results of investigations on the use of aerosols against agricultural p-ests and for the protection of plants against frost.

Card 4/4

APPROVED FOR RELEASE: 06/15/2000

Same Bernerikanskanska

ACCESSIO AUTHOR: TITLE: SOURCE: nauk. n dispers	EPA/EWT(E)/EPA(s)-2/EPF(c)/T/EWP(j)/EPA(w)-2/EPR Pc-4/Pab-10/Pr-4/ EPA/EWT(E)/EPA(s)-2/EPF(c)/T/EWP(j)/EPA(w)-2/EPR Pc-4/Pab-10/Pr-4/ NR: AT5006323 Ps-4/Pt-10 RWH/ S/3142/62/152/008/0018/0024 NR: AT5006323 Ps-4/Pt-10 RWH/ S/3142/62/152/008/0018/0024 Fedoseyev, V. A.; Polishchuk, D. I. WW/JW/RM 6/2/ Fedoseyev, V. A.; Polishchuk, D. I. Some special features of the combustion of liquid-fuel droplets Some special features of the combustion, and combustion Note (Problems of gas dynamics, evaporation, droplet combustion, dispersed state), 18-24
In the TOPIC 1 suspen tion ABSTRA gated which	AGS: combustion, experimental combustion, dropic fuel combus- ion combustion, liquid fuel, trace method, liquid fuel combus- ion combustion, liquid fuel, trace method, liquid fuel combus- T: The combustion of single particles and aerosols was investi- with powdered plexiglass? celluloid and paraffin was particles, with powdered plexiglass? celluloid and paraffin was particles, are more easily studied than liquid fuels. Traces of burning are more easily studied than liquid fuels. The dependence of particle porating particles were photographed. The dependence of particle me on mass was determined. The particle distribution curve me on mass was determined. The mean size was 7 microns, and a sharply defined maximum. The mean size. Comparison of the to 8% of the particles were half this size.

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CCESSION NR: AT5006323		O
esults shows that the effe	cts of temperature on the	evaporation rate
of small and large particle	s are quantitatively simil	ar. The increase
of the number of particles		
reces up to a limit beyond		
s accompanied by an abrupt		
eaches a maximum and then		
of a certain particle size izes during the combustion		
arity in the continuous fl		
orption of radiating heat		
trated previously that thi		
rom linearity of the surfa		
irt. has: 10 figures.		[AC]
SSOCIATION: Odesskiy gosu	miversitet (Odessa State 1	Jniversity)
SUBMITTED: 00	ENCL: 00	SUB CODE: FP
O REF SDV: 002	OTHER: 000	ATD PRESS: 3200
		에 날 것 이 편지? 그 것 않는 것 같아?
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L 25042-65			
ACCESSION NR: AT5004219			4
was calculated. The relationship	os_ofS_vs_twe	re linear in s	ome
cases. dl/dt was determined for /	Al By and Mg s	uspensions in	kero-
sine, gasoline, isooctane, methano	ol, and ethanol	as a function	of air
temperature. A graph of dS/dt vs B-75% kerysine and 40% A1-60% kero	T is given for	ione in netrol	E 436 eum
products burned in several stages	first combus	tion of the li	auid
fuel, thei combustion of the metal	l particles, ar	d finally comp	letion
of combustion and cooling of the	residue. The f	low velocity h	ad a
considerable effect on the burning	g velocity at t	emperatures be	low
750C. At higher temperatures the	effect was neg	gligible. Susp	ensions
in isooctine burned slowest, and The latter case is explained by t	suspensions in	alconois, fast	est. chol
and by ejection of metal particles	s from the sust	ension. The t	empera-
tures reached in the individual s	tages of combus	tion were meas	ured.
A suspension of boron in petroleum	m products and	in alcohol gav	e tem-
peratures of 2300 and 2900C, a su	spension of all	uminum, 2900 an	d 3000C.
When high temperatures are require	ed, aluminum st	ispension is t	here- [PV]
fore prefirable. Orig. art. has:	4 rigures.		
ASSOCIATION: Odesskiy gosudarstv	ennyy universi	tet im. I. I. M	echni-
kova (Odessa State University)		1996년 1997년 1997년 1997년 - 1997년 19 1997년 1997년 199	
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L 25044-65 EPA/EPA(s)-2/EWI (m)/EPF(c)/EPR/EPA(w)-2/T Pab-10/Pr-4/Ps-4/Pt-10	
RPL RwH/w//JW/MLK ACCESSION IR: AT5004221 S/0000/64/000/000/0163/0166	
AUTHOR: Litonina, L. P.; Fedoseyev, V. A. (Doctor of physicomathe- matical sciences); Polishchuk, D. I.	
TITLE: Combustion of droplets in an airstream	
SOURCE: <u>Al UkrSSR.</u> Institut tekhnicheskoy teplofiziki. Teplofizika i teplotekhnika (Thermophysics and heat engineering). Riev, Naukova dumka, 1964, 163-166	
TOPIC TAGS: combustion, liquid fuel, droplet, air breathing propul- sion	
ABSTRAGT: The blow-off velocities of B-70 gasoline, T-1 kerosine, and isooctane droplets have been studied at the Combustion Laboratory	
of the Odessa State University by recording the temperature of the droplet, the air velocity, and the droplet diameter at blow-off.	
This is the latest in a series begun in the effect of the air velocity of the kinetics of droplet combustion, the effect of the air velocity on combustion, and the relationships between the blow-off velocity and the droplet diameter at 25-1000C. It was found that the blow-	
Card 1/2	

n in Sector and the sector and

L 25044-55 ACCESSION IR: AT5004221 off velocity is a function eter, and pecific propervelocity to droplet diamic criterion has been evalue the droplet surface area tion of time at 300 and in the curve of droplet ASSOCIATION: Odesskiy g kova (Odessa State Unive	eter suggested by Spa ated for the fuels st of B-70 gasoline was 500C. Flame blow-off surface vs time. Ori osudarstvennyy univer	lding as a blow-off udied. The change of determined as a func- was indicated by a break g. art. has: 2 figures. [PV]	
SUBMITTED: 10Aug64	ENCL: 00	SUB CODE: FP	
NO REF SOV: 007	OTHER: 000	ATD PRESS: 3180	
Card 2/2			
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L 45672-66 EWT(1)/EWP(m)/EWT(m)/T DS/WW/JWD/RO ACC NR: AP6021222 (//) SOURCE CODE: UR/0294/66/004/003/0466/0468	
ACC NRI AFOULILL (7) AUTHOR: Polishchuk, D. I.	
ORG: none	1
TITLE: Fifth scientific conference on problems of vaporization, combustion and gas dynamic: of dispersion systems	
SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 3, 1966, 466-468 TOPIC TAGS: physics conference, aerosol, gas dynamics	
ABSTRACT: A resume of the Fifth All-Union Inter-University Conference on the vapori- zation, combustion and gas dynamics of dispersion systems is given. The Conference was held at Odessa University, with an attendance of 216 delegates. 51 papers on the theory of and experience with <u>Jaerosol</u> formation, aerosol stability and heat exchange and gas dynamics of two-phase <u>streams</u> were read. Another 58 papers dealt with theore- tical and experimental investigation of <u>combustion</u> and vaporization processes of aero- sol materials at high temperatures. The most important papers presented at each of two sections (phase transition section and gasdynamics section) as well as those giv- en in plenary sessions are briefly described. The more interesting approaches and co- lutions are briefly mentioned without going into the significance of the experimental results. At the conference, the study of smokes, fogs and clouds was also discussed. In addition, there was some discussion of solid fuels and <u>metal powder combustion</u> in SUB COIE: $\frac{20}{SUBM DATE}$: none Cord $\frac{1}{1}$ iv	

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ACC NRI	AT7000292	SOURCE CODE:	UR/3142/60/1	50/007/0033.'0037	
AUTHOR:	Polishchuk, D. I.				
DRG: Non	ne .				
TITLE: V	Aporization and comb	ustion of drops of som	e organic liq	uids	
loprosy i	Odessa. Universitet. spareniya i goreniya he dispersed state),	Trudy, v. 150. Seriya v dispersnom vide (Pr 33-37	fizicheskikh oblems of eva	nauk, no. 7, 1960. poration and combus-	
OPIC TAG	S: vaporization, con	nbustion kinetics, liq	uid fuel		
Combustio ation of led from The vapor picture o experimen cemperatu Provision	on Physics, Odessa Sta drops of liquid fue a special device cons vizing or burning drop or still camera specia tal setup provided for the (from room tempera was also made for magnetic	n experimental researc ate University on the L. Comparatively larg sisting of a glass sph ps were photographed t ally modified for phot or vaporization of dro atures to 100°C) and v aintaining a given vap tons of vaporizing dro	process of co e (up to 2 mm ere on a thin hrough a micr ographing rap ps in a strea elocity (from or concentrat	mbustion and vapori-) drops were suspen- nichrome fikment. oscope using a motion id processes. The m of air at a given 0 to 6 mm/sec). ion (from 0 to satura	n
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					1995 1985 - 1992

ACC NR: AT7000297

SOURCE CODE: UR/3142/60/150/007/0085/0096

AUTHOR: Latonina, L. P.; Fedoseyev, V. A.; Polishchuk, D. I.

MARCONTENENT EPANARTIMATINATION DE CARACTERISTICA

ORG: None

TITLE: Experimental research on combustion of drops of various fuels in a hot air stream

SOURCE: Odessa. Universitet. Trudy, v. 150. Seriya fizicheskikh nauk, no. 7, 1960. Voprosy ispareniya i goreniya v dispersnom vide (Problems of evaporation and combustion in the dispersed state), 85-96

TOPIC TAGS: combustion kinetics, liquid fuel, fuel ignition, vaporization, AIX Front

ABSTRACT: The authors study "separation" of the flame from a drop of burning fuel in a moving air stream. Motion picture photography was used for studying the flame separation phenomenon in the case of a drop with continuously decreasing diameter. The flow conditions (Reynolds number) change with a reduction in the size of the burning drop when the velocity of the air stream remains constant, and the distance between flame and drop increases with combustion. The "stationary drop unit" shown in the figure was used for measuring the velocities at which fading of the flame was observed on the frontal surface of the drop by vaporization from a sphere 2 of calcined clay fastened to the tip of a hypodermic syringe. The piston 4 of the syringe is con-

Card 1/2

APPROVED FOR RELEASE: 06/15/2000

<u>L h2050-66</u> <u>EMT(1)/EMT(m)/T</u> LIP(e) <u>DS/AM/JM/JWD/WE/GM</u> SOURCE CODE: UR/0185/66/011/005/0575/0578	
ACC NR: AP6016055 SOURCE CODE: 0R/0185/00/011/005/05/05	
AUTHOR: Polishchuk, D. I. 73	
ORG: none B	
TITLE: Fifth Scientific Conference on the Problems of Evaporation, Combustion, and Gas Hynamics of Dispersed Systems	
SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 5, 1966, 575-578	
TOPIC TA(S: physics conference, gas dynamics, combustion, phase transition, aerosol, metal combustion, oscillatory combustion	
ABSTRACT: The Fifth Scientific Conference on Evaporation, Combustion, and Gas	
Dynamics of Dispersed Systems was held at Odessa State University from	
27 September through 2 October 1965. The conference was convened by	
the University; the <u>Council for High-Temperature Thermodynamics and</u> Thermal Physics of the <u>Ukrainian Academy of Sciences</u> also participated.	
Some 216 scientists representing various institutes and more than 100	
scientists and students of Odessa State University took part in the work of	
the conference.	
The conference was divided into two sections: one on phase transitions	
in aerodispersed systems and the other on combustion and gas dynamics.	
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L 42056-66 13 AP6016055 ACC NR: At the plunary session of both sections, 51 papers dealing with the theory and practice of the formation and stability of aerosols, heat exchange, and gas (lynamics of two-phase flows and 58 papers on theoretical and experimental studies of combustion and evaporation of dispersed materials at high temperatures were presented. In the section on dispersed systems, B. V. Deryagin, Corresponding Member of the Academy of Sciences USSR, reported on new progress in the study of course-dispersed aerosols, and professor M. S. Shishkin reported on the conditions of the growth of snow, sleet, and hail particles in supercooled clouds. Deryagin's paper and Yu. A. Yalamova's paper on the theory of diffusiophoresis and thermophoresis of large aerosol particles. were discussed in great detail. I. M. Yur'yev, V. M. Volushchuk, and E. M. Ovchinnikova presented papers on the calculation of the coefficients of capture of aerosol particles, and I. I. Paleyev, F. O. Agafonova, and M. Ye. Lavrent'yev reported on results of experimental studies of the flow of aerodispersed systems. Results of experimental studies were also presented on the motion of dispersed materials in vertical closed tubes by S. M. Reprintseva and M. V. Fedorovich, Card 2/5

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POLISHCHUK, D.I.

Fourth Scientific Conference on the Evaporation, Combustion, and Gas Dynamics of Disperse Systems. Ukr. fiz. zhur. 10 no.5:574-576 My '65. (MIRA 18:5)

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ACCESSIC	(m)/EWA(1) RPL DS/WW/JW/JWD/WE/RM N NR: AP5016706 UR/0294/65/003/003/0493/0498	145
AUTHOR:	Polishohuk; D. I. 44,55	
	Fourth Scientific Conference on Evaporation, Combustion, and Gas Dynamics	374
SOURCE:	Teplofizika vysokikh temperatur, v. 3, no. 3, 1965, 493-498	11
gas dyni	GS: thermodynamics, combustion, thermodynamics conference, evaporation, mics, ignition, <u>combustion chamber</u> , flass, aerosol 23,44	
a a marine of the	The Fourth Scientific Conference on Evaporation, Combustion, and s Dynamics of Disperse Gynterio and Officers State University, 44,	55
th of Se	Council for High-Temperature Thermodynamics and Thermal Physics the Academy of Sciences USSR. A total of 155 delegates attended, repre- nting a number of institutes of the Academy of Sciences USSP.	
Sil	erian Branch, the Ukrainian, Belozusaian, and Kazakh Academies of	

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Scienc Sarato of teac versity The co ture pr by Pro	ION NR: AP5016706 es; and some branch institutes of the Moscow, Leningrad, Kiev, , Kazan, and Dnepropetrovsk Universities. More than 100 members. ning staffs, scientific workers, and advanced students of the uni- and other higher-education institutions in Odessa also took part, nference was conducted in two sections dealing with the low-tempera- ocesses in aerosols, and with combustion and gas dynamics, headed . A. Z. Golik and Prof. S. M. Todes, respectively.	9
Dui and <u>B.</u> USSR, i "High-I the mec energy fer in D investig	ing plenary meetings, papers were delivered by <u>K. I. Shchelkin</u> V. Dervägin, Corresponding Members of the Academy of Sciences and <u>Z. R. Gorbia</u> ; Doctor of Technical Sciences. Shchelkin's paper, requency Pulses During <u>Combustion of Solid Propellants</u> ", covered hanism in the conversion of combustion energy into oscillation and the amplification of oscillations. Gorbia's paper, "Heat Trans- isperse Flows," gave the results of experimental and theoretical ations on heat transfer carried out at the Odessa Technological In- m. M. V. Lomonosov, 44,55	
Card 2	/9	

62902-	5 N NR: AP5016706	
Ti	irty-eight papers dealt with theoretical and experimental investiga- I the operation of combustion chambers of various power plants. In	
their p thalen	aper "Calculation of the Rates of Evaporation and Growth of a Naph- Droplet \Taking into Account its Change in Temperature", O. M.	
permit	V. A. Fedosevev, and V. I. Zubkov presented a solution which s calculation of the temperature and the rate of evaporation of a	
partici	of water or other liquid in air containing unsaturated vapors. In lar, it was shown that if the evaporation takes place in the diffusion cooling of the particle does not depend on a low velocity. This result	
has be lene si	en confirmed by temperature measurements of evaporating naphtha- heres. A paper by Yu. B. Sviridov, Ye. V. Shatrov, and G. M.	
liquid I	dealt with the investigation of the evaporation process of dispersed uels in a constant-volume combustion chamber. The authors pre- the results of a study of fundamental laws for heating and evaporation	
of the ess of	atomized fuel. In particular, they ascertained that the heating proc- injected fuel proceeds at a continuously decreasing rate of heat trans- the droplet. The empirical relationships for this process were	
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	2-15 SICH NR: AP5016706	
	44,55	
neou	Explosive Substances in Heated Gas", by Yu, L. Grigor'yey, E. I.	
Mak	in dy, and A. G. Merzhanov, dealt with a detailed analysis of the	
ignit	or of spherical particles of homogeneous explosive substances, taking	
into	ci ount the exothermic reaction in the condensed phase and the un-	
stea	y hermal conductivity of the particle and the gas. The relative im-	
port	nce of various factors was discussed. The dependence of ignition ensures on the particle size was determined, and the relationships	
tem	en ignition delay and the temperature or particle size were studied.	
	2. 1997년 1972년 2월 1972년 - 1972년 2월 2월 2012년 1972년 1 1972년 1972년 197	
	A paper entitled "Special Features of Ignition and Combustion of Dis-	
pers	luels in Oxygen-Enriched Media" by Yu. B. Sviridov, Ye. V. Shatrov,	
and	M. Kamfer gave the results of an investigation of ignition and com-	
bust	on processes of diesel fuels taking place in oxygen and nitrogen-oxygen /	
mix	ir s. It was found that within the low-temperature range, the com-	
	Sand 5/9	

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000010	INR: AP5016706	1.2%
	regime is kinetic, while in the high-temperature range, it is dif-	
	ontrolled. The burning velocity at temperatures exceeding 450°C	
	depend on pressure; the ignition delay decreases with increasing	
ressu	토퍼 방송하다. 그 토토토 이 등이 있는 것도 있는 것이 있는 것이 것 같아요. 그는 것 같아요? 그 가지 이 방법에 있는 것이 가지 않는 것이 가지 않는 것이 가지 않는 것이 가지 않는 것 같아.	
		13.1
Me	ry papers dealt with combustion problems of solid disperse fuels,	
	from the oxidation of individual particles to the combustion of a	
olydiş	perse flow. "Ignition of Magnesium Particles in Steam" by V. Ye.	
	wand N. V. Fedoseyeva presented a method and determined the	
	on energy during low-temperature oxidation of magnes um particles	
n the r	re-flame reaction in steam (580-600°C). A paper by D. I. Fol-	-1
	V. L. Yankevich, and T. F. Dzhuzhuk dealt with the effect of the of dispersion of magnesium powder suspended in kerosine on the	
	velocity of the droplets. It was shown by chemical analysis of	
	tion products that the combustion efficiency increases with de-	
	g particle size, Papers entitled "Combustion of Compositions	
	in Potassium-Perchlorate Oxidizer and Metallic-Fuel Combustible"	
	160	
Card	i/9	

	N NR: AP5016706 (3) 4 E. Pokhil and L. D. Romadanova and "Unsteady Combustion of Thin	
by P.	E. Pokhil and L. D. Romadanova and Unsteady Complision of Thing r Plates" by Margolin and Gostintsev were very well received.	
Powde	r Plates by Margolin and Costinused were very went received.	
A	interesting paper on mixing of streams of incompressible liquids	
in an a	nclosed snace was delivered by B. V. Kantorovich." Considerable	
intere	it was shown by the participants in the papers on the "Effect of Vis-	
cosity		
Cobry	on Stability of a Plane Flame Front" and "Dependence of Flame-	
Front	Stability on Flame Intensity" by S. K. Aslandy which dealt with the	
Front	Stability on Flame Intensity" by <u>S. K. Aslandy</u> which dealt with the gation by the method of small perturbations of plane flame-front	
Front invest stabili	Stability on Flame Intensity" by <u>S. K. Aslandy</u> which dealt with the gation by the method of small perturbations of plane flame-front ty, taking into account viecous forces and the relationships between al-reaction kinetics and hydrodynamic disturbances. It was shown	
Front invest stabili chemi that w	Stability on Flame Intensity" by <u>S. K. Aslandy</u> which dealt with the gation by the method of small perturbations of plane flame-front ty, taking into account viecous forces and the relationships between cal-reaction kinetics and hydrodynamic disturbances. It was shown hen the intensity decreases (lowering the temperature drop) com-	
Front invest stabili chemi that w	Stability on Flame Intensity" by <u>S. K. Aslandy</u> which dealt with the gation by the method of small perturbations of plane flame-front ty, taking into account viecous forces and the relationships between al-reaction kinetics and hydrodynamic disturbances. It was shown	
Front invest stabili chemi that w	Stability on Flame Intensity" by <u>S. K. Aslandy</u> which dealt with the gation by the method of small perturbations of plane flame-front ty, taking into account viecous forces and the relationships between cal-reaction kinetics and hydrodynamic disturbances. It was shown hen the intensity decreases (lowering the temperature drop) com-	
Front invest stabili chemi that w	Stability on Flame Intensity" by <u>S. K. Aslandy</u> which dealt with the gation by the method of small perturbations of plane flame-front ty, taking into account viecous forces and the relationships between cal-reaction kinetics and hydrodynamic disturbances. It was shown hen the intensity decreases (lowering the temperature drop) com-	
Front invest stabili chemi that w	Stability on Flame Intensity" by <u>S. K. Aslandy</u> which dealt with the gation by the method of small perturbations of plane flame-front ty, taking into account viecous forces and the relationships between cal-reaction kinetics and hydrodynamic disturbances. It was shown hen the intensity decreases (lowering the temperature drop) com-	
Front invest stabili chemi that w	Stability on Flame Intensity" by <u>S. K. Aslandy</u> which dealt with the gation by the method of small perturbations of plane flame-front ty, taking into account viecous forces and the relationships between cal-reaction kinetics and hydrodynamic disturbances. It was shown hen the intensity decreases (lowering the temperature drop) com-	

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APPROVED FOR RELEASE: 06/15/2000

			u.
Inve furth for c of di	2-65 SI ON NR: AP5016705 A paper by V. A. Fedoseyev entitled "I st gating Phase Transitions in Aerodisp ier improvement of the trace method ar ietermining the characteristics of comb spersion, number of particles per unit n cal reaction. An electric filter was particles were counted in the diluted su of, and particle size was determined w	nd the development of try bustion products, their degree t volume, and completeness of used to trap combustion products,	
ASSC SUB)	C ATION: NOR8 IT FTED: 00	SIR CODE: TD, GC	
	000- -a 9/9		

CIA-RDP86-00513R001341810011-1

POLISHCHUK, D. I., FEDOSEYEV, V. A. and LATONINOY, L. P. (Institute of physics of Odessa State university)

"Investigation of combustion of droplets in air currents".

Report presented at the Section on Physics of Combustion, Scientific Session, Council of Acad. Sci. Ukr SSR on High Temperature Physics, Kiev, 2-4 Apr 1963.

Reported in Teplofizika Vysokikh temperatur, No. 2, Sep-Oct 1963, p. 321, JPRS 24,651. 19 May 1964.

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POLISHCHUK, D.I.

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Third Intercollegiate Conference on Evaporation, Combustion, and Gas Dynamics of Disperse Systems. Ukr. fiz. zhur. 8 no.43 498-500 Ap '63. (MIRA 16:8)

(Physics-Congresses)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341810011-1

Ukrayins'kyy fizichnyy zhurnal, v. 8, no. 4, Apr 1963, 498-500. S/185/63/008/004/015/015 A prientific conference devoted to problems of evaporation, combustion, and ł gas dynamics of dispersed systems was held at Odessa State University imeni I. I. Mechinikov from 1 to 6 October 1962.] 1. 1. Mechinikov from 1 to b October 1802.) . Sixty-five papers were presented, 24 of which dealt with the theory and practice of production and stability of aerosols and the effect on these processes of various physicochemical factors: the other 41 wars working processes in combustion chambers of various power plants. Some of the titles were "Investigating oxidation processes of high hydrogenous fuels by oxygen from compressed air," <u>S. S. Kramarenko</u>; "Burning of metal sus-pension in hydrocarbon fuels," <u>D. I. Polishchuk</u>, <u>L. P. Latonina</u>, and <u>V. L.</u> Yankevich; and "Experimental investigation of two-phase flow in axially-symmetrical nozzles, "G. A. Komov, Included also were discussions of the methods of solving equations of dissociating gas flow in ducts and gas dynamic calculations for jet engines, <u>G. A. Varshavakiy</u>, <u>E. Ya. Gub</u>er, and <u>A. P.</u> Kisel'ov; the formation of plane shock waves in chock tubes and passage of shoch waves through a flame front, D. V. Fedozeyay, G. D. Sadamandr. and I. K. Sevestivenova; experimental results on the flow of combustion products Garathane-orygen mixture around cambered surfaces with diffraction of detonation vaves, L. G. Gvozd'ova; the stability of a steady-state flame front S. K. Asianov; the relationship between the flame and the diameter of a burning drop, V. O. Fedoseyev; and theoretical and experimental investigation of burning of upherical metal particles, by L. A. Klyachko. (); [AS]. . Card 2/2

APPROVED FOR RELEASE: 06/15/2000

POLISHCHIK, D.	Ya.
USSR/Miscellar	neous - Industrial Processes
Card 1/1	
Author :	Polishchuk, D. Ya.
Title :	Automatization of universal hydraulic presses
Periodical :	Stan. i Instr., No. 5, 4 - 7, May 1954
Abstraci: :	The deficiencies of existing hydraulic presses ChMZ, IZh and "Metallist" used by Soviet industry for the manufacture of plastic products are des- cribed. The author proposes certain modifications which would fully automatize the operations of the existing universal hydraulic presses. Drawings.
Institution :	
Institution : Submitted :	

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s/081/61/000/003/016/019 A166/A129

AUTHOR: Polishchuk, D. Ya.

TITLE: The technological effectiveness of parts from thermosetting plastics

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1961, 546, abstract 3P77. (Vestn. priborostroyeniya, 1959, no. 1, 51 - 56)

TEXT: The article states the basic factors which must be taken into account in designing pressed parts so as to facilitate extraction of the parts from the mold and to ensure high strength characteristics and high-quality pressing. Examples are given.

Summary by Ye. Zambrovskaya

[Abstracter's note: Complete translation]

Card 1/1

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Monthly List of Russian Accessions, Library of Confress June 1953. URCL.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341810011-1"

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USSR /Chemi and T	LISHCHUK, E. R. Ical Technology. Chemical Products H-2 Their Application esses and Apparatus for Chemical Technology Referat Zhur - Khimiya, No 1, 1958, 1503	
	- Jushanko I S., Polishchuk E.R.	
Inst :	Leningrad Technological Institute imeni Lensovet New Computation Graph for Determining Frictional	
Title :		
Orig Pub:	NO 39, 204 2-2	
Abstract:	A comparison is made of the calculation equations derived by a number of investigators for deter- mining the coefficient of external friction λ in pipe lines, and it is shown that most of the corre- lations yield results that are in good agreement.	
Card 1/2		

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DATE REPORT AND A DESCRIPTION OF THE PARTY REPORT

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USSE /Chemical Technology. Chemical Products H-2 and Their Application Processes and Apparatus for Chemical Technology

> A general graph has been plotted for the correlation between criterion Eu and Re (up to Re = 10⁸). For the turbulent and the automodel regions 5 curves have been plotted which correspond to the different values of relative roughness (from 10^{-2} to 10^{-4}) and also a curve for smooth pipes. The plotted curves correspond to the averaged values of Eu criterion, calculated on the basis of the equations being compared. It is shown that in scope of applicability and simplicity of calculations, the most convenient is the equation of Filonenko: $\lambda = 0.302(\log Re - 0.903)^{-2}$.

Card 2/2

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KOCHETKOVA, Z.V.; LEKHNO, S.M.; POLISHCHUK, F.M.

Experimental unit for the manufecture of vitaminized granulated sugar. Sakh.prom. 38 no.3:28-30 Mr '64. (MIRA 17:4)

1. Institut pitaniya AMN SSSR (for Kochetkova). 2. Krasnopresnenskiy sakharo-rafinadnyy zavod im. Mantulina (for Lekhno, Polishchuk).

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CHIKIN, G.A.; MELESHKO, V.P.; KLEYMAN, M.B.; POLISHCHUK, F.M.

Experimental unit for refinery juice purification by means of anion exchange resins. Sakh.prom. 38 no.2:25-31 F '64. (MIRA 17:3)

1. Voronezhskiy gosudarstvennyy universitet (for ^Chikin, ^Meleshko). 2. Krasnopresnenskiy sakharo-rafinadnyy zavod im. Mantulina (for Kleyman, Polishchuk).

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